

What is claimed is:

1. A multicolor development glass vessel, comprising a multilayer film composed of multiple vapor deposition layers whose refractive indices differ from each other, directly or indirectly provided on an external surface and internal surface, or either one thereof, of the glass vessel.
2. The multicolor development glass vessel as described in claim 1, wherein the multilayer film alternately contains two types of vapor deposition layers whose refractive indices differ from each other by 0.1 or more.
3. The multicolor development glass vessel as described in claim 1 or 2, further comprising at least one layer selected from a silica layer, a chromium layer, a zirconium layer, and an aluminum layer as a lower layer of the multilayer film.
4. The multicolor development glass vessel as described in claim 2 or 3, wherein the two types of the vapor deposition layers alternately contains at least two or more of silica layers and titanium layers.
5. The multicolor development glass vessel as described in any of claims 1 to 4, wherein the multiple vapor deposition layers have their respective thicknesses in a range of 50 to 3,000 nm.
6. The multicolor development glass vessel as described in any of claims 1 to 5, wherein a polysiloxane-based coating film is provided between the external surface or internal surface of the glass vessel and the multiple vapor deposition layers.
7. A process of producing a multicolor development glass vessel, where a multilayer film is directly or indirectly provided on the surface of a glass vessel, comprising the steps of:
  - (1) preparing the glass vessel;
  - (2) forming a multilayer film composed of multiple vapor deposition layers whose refractive indices differ from each other, directly or indirectly provided on an external surface and an internal surface, or either one thereof of the glass vessel, by a vapor deposition or sputtering technique.
8. The process of producing a multicolor development glass vessel as described in claim 7, wherein
  - the step (2) alternately forms two types of vapor deposition layers whose refractive indices differ from each other by 0.1 or more.

9. The process of producing a multicolor development glass vessel as described in claim 7 or 8, further comprising the step of forming a polysiloxane-based coating film as a step (1') between the steps (1) and (2).

10. The process of producing a multicolor development glass vessel as described in any one of claims 7 to 9, wherein the step (2) forms a multilayer film while revolving the glass vessel.